

Title (en)

Chemical sensing microbeam device

Title (de)

Chemische Messvorrichtung mit Mikroausleger

Title (fr)

Dispositif capteur chimique avec un microcantilever

Publication

EP 2141490 B1 20150401 (EN)

Application

EP 09163886 A 20090626

Priority

US 7782508 P 20080702

Abstract (en)

[origin: EP2141490A1] A sensing device for detecting an analyte comprising at least one geometrical structure, at least two clamps provided for clamping the at least one geometrical structure on at least two ends of the geometrical structure, the at least one geometrical structure comprising at least one chemical responsive layer being absorbent or adsorbent for the analyte, a support structure provided for at least partly supporting the at least one chemical responsive layer, wherein the at least one chemical responsive layer has a varying effective spring constant which changes upon absorption or adsorption of the analyte.

IPC 8 full level

G01N 27/00 (2006.01); **B81B 3/00** (2006.01); **G01N 29/02** (2006.01)

CPC (source: EP US)

G01N 29/022 (2013.01 - EP US); **G01N 2291/0256** (2013.01 - EP US); **G01N 2291/0427** (2013.01 - EP US)

Citation (examination)

US 2008100176 A1 20080501 - HASKELL REICHL B [US], et al

Cited by

CN103674759A; EP2878942A1; JP2015045657A; EP2579010A4; US10175212B2; WO2015082956A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 2141490 A1 20100106; EP 2141490 B1 20150401; US 2010000292 A1 20100107; US 8291745 B2 20121023

DOCDB simple family (application)

EP 09163886 A 20090626; US 49545109 A 20090630